

ABSTRACT**PROCESSOR UTILIZATION MODELING FOR DATA NETWORKING
SOFTWARE**

5 Nodes of a communication network are evaluated by calculating the processor
occupancy of a processor processing subscriber information at that node. The calculated
processor occupancy represents the capacity of the node. The processor occupancy and
thus the node capacity is calculated from a traffic model constructed from a linear
combination of mathematical equations describing the relationship between a measured
10 processor occupancy value for a particular type of information and a particular data rate.